RadResponder Network

The National Standard

As part of the Nuclear/Radiological Incident Annex to the Response and Recovery Federal Interagency Operational Plans, the RadResponder Network is the National Standard and Whole Community solution for the management of radiological data.

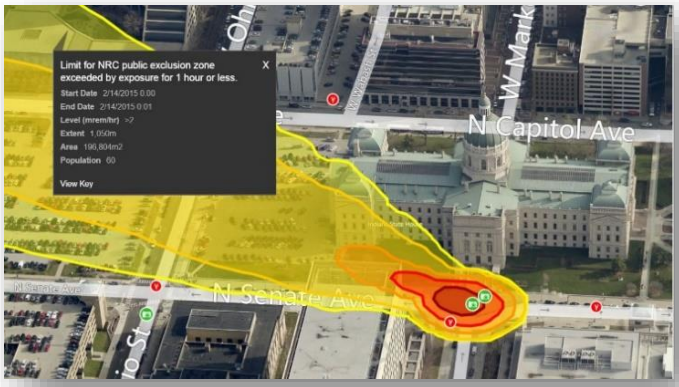

Figure 1: RadResponder Shared Event Space with modeling & data

The Network is the product of collaboration among FEMA, DOE/NNSA, and EPA, and was developed as a solution to lessons learned about data management and data sharing following the Fukushima disaster in 2011.

RadResponder is now provided free to all federal, state, local, tribal, and territorial response organizations allowing users to uniformly establish a flexible, efficient and networked approach to the management of radiological data. RadResponder can be accessed on smartphones and tablets (iOS, Android, Windows), and via the web (www.radresponder.net), allowing it to be seamlessly and rapidly employed at all levels of government during a radiological or nuclear emergency response.

The Network also provides tools to manage personnel, equipment, and field teams, which help to maintain data quality standards. The RadResponder mapping utility allows for the geospatial display of real-time data, responder locations, modeling, user GIS files, fixed sensors, facilities, and sampling locations. GIS file exports ensures RadResponder is interoperable with other geospatial situational awareness tools.

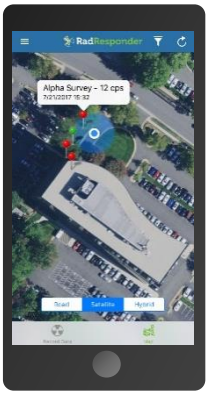

Figure 2: RadResponder mobile application

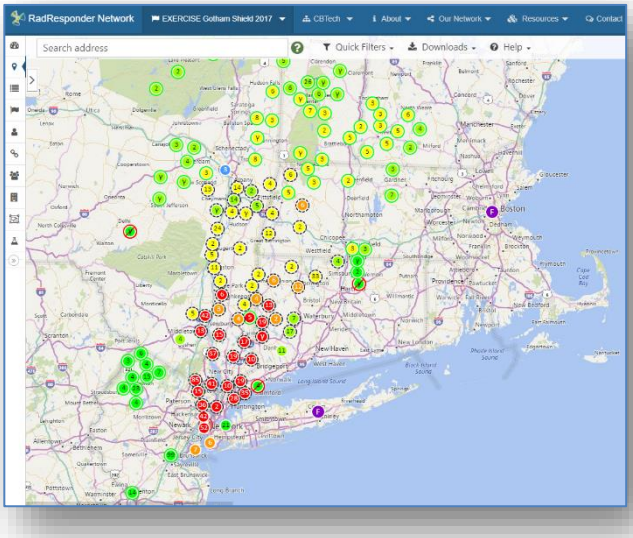

Figure 3: Event Map with clustered data and Responder Tracking

Partnerships and Data Management

Partnership functions within the Network provide flexibility for organizations to manage with whom and under what circumstances radiological data is shared. Events can be managed in RadResponder to allow multiple jurisdictions to collect and share radiological data and event information. RadResponder also incorporates atmospheric dispersion modeling into events, allowing for rapid display of plume models to support operational planning and decision making.

Via the RadResponder Application Program Interface, organizations and equipment manufacturers can integrate live data feeds into the system to provide real-time monitoring and situational awareness. These data feeds can take the form of fixed monitoring stations or user-authenticated, Bluetooth-enabled detection equipment which reduces errors and improves the quality and efficiency of data collection.

For more information, please contact the RadResponder Team at support@radresponder.net

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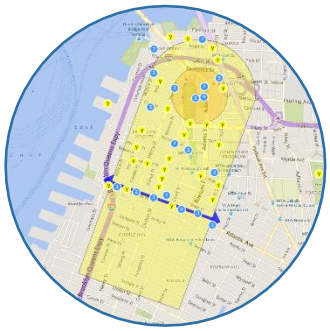
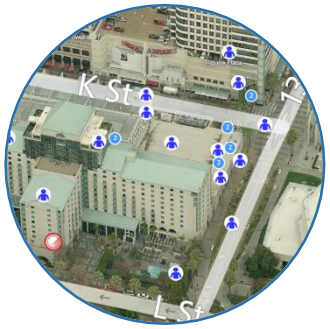
RadResponder Network

Capabilities



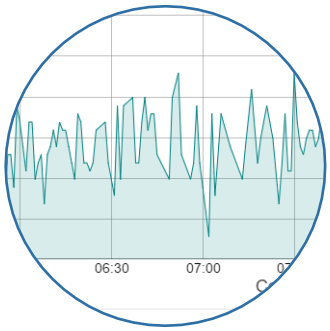
RDD Guidance

Hot zones, Shelter-in-place zones, and 10-Point Monitoring Plans available at the click of a button



Responder Tracking

Track responders in the field that are using the mobile applications



Fixed Sensor Integration

Fixed monitoring sensors located nationwide stream data to provide real-time situational awareness

Plume Modeling & GIS Files

Use NARAC's plume models or upload your own KML or Shape files to an event

API & Bluetooth Equipment

Equipment manufacturers can integrate with our API to send data directly to RadResponder

FUNCTIONALITY

COLLECT

- Field surveys
- Field samples & analysis
- Spectra
- Observations

MANAGE

- Responders
- Equipment
- Field Teams
- Partnerships

SHARE

- Radiological data
- Situational awareness
- Event management responsibilities

…with any organization in the RadResponder Network